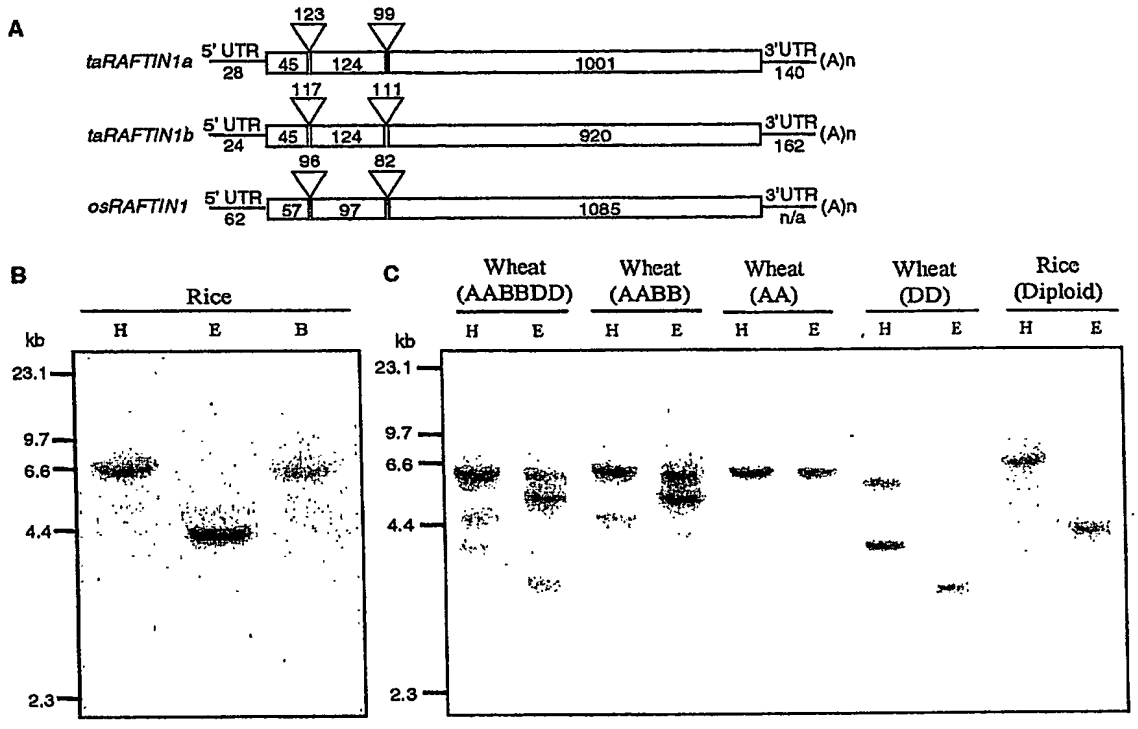
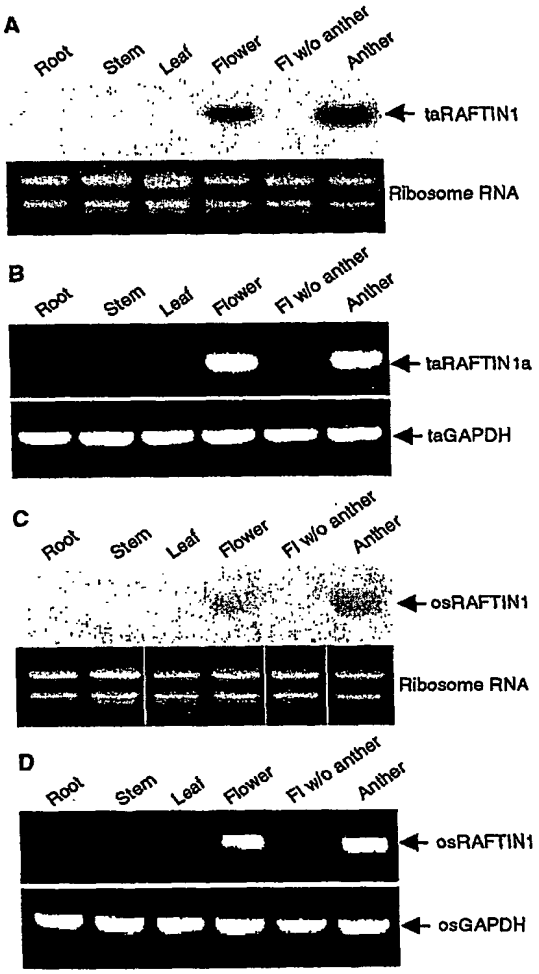


Figure 1



Top

Figure 2 Aiming Wang *et al.* 2002

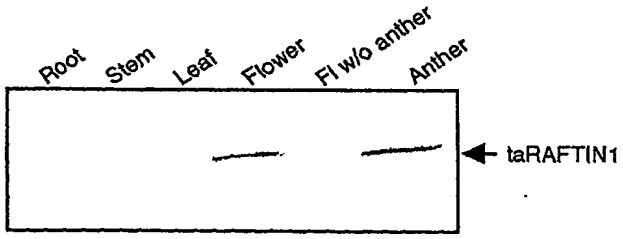


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Figure 3 Aiming Wang *et al.* 2002

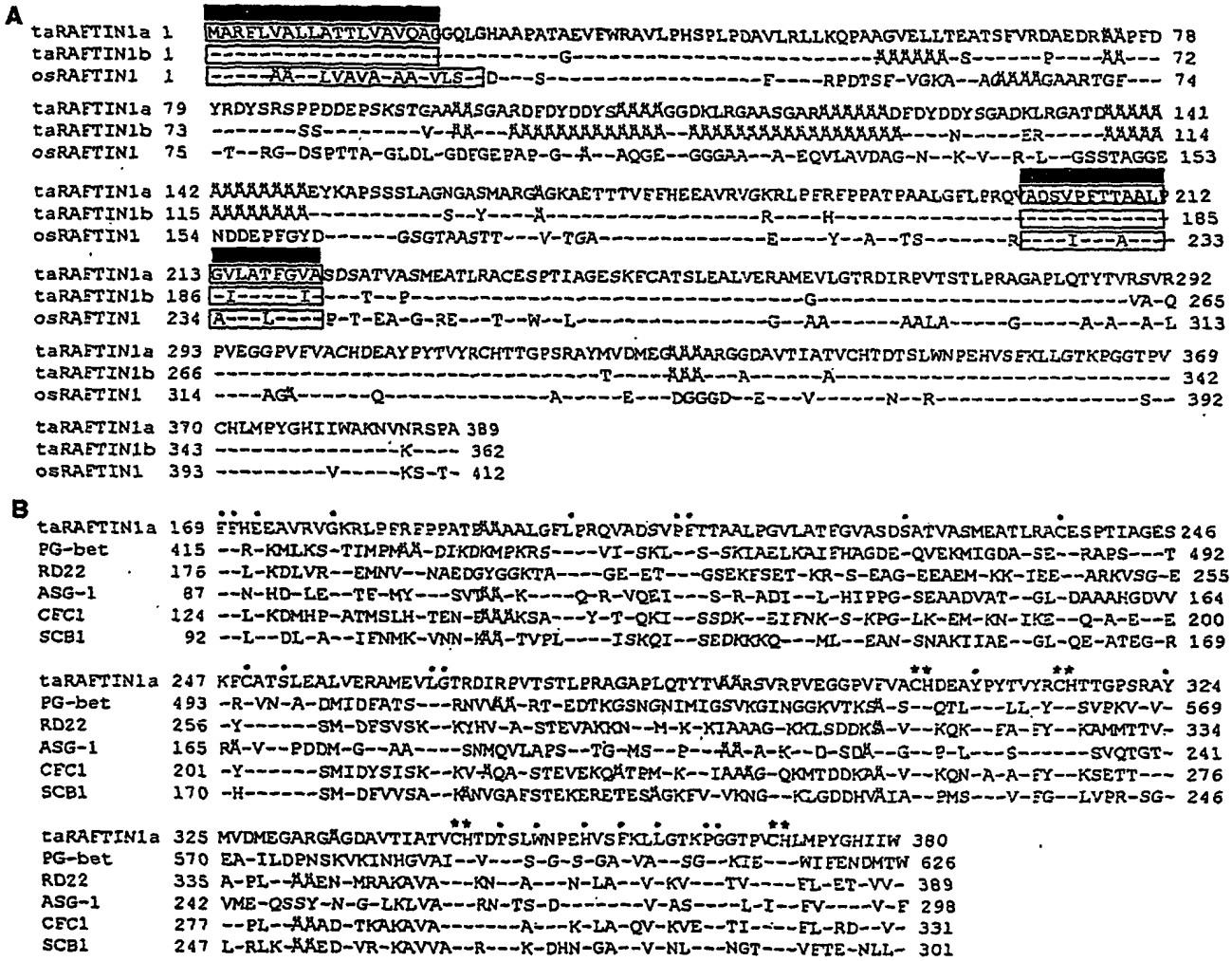


Figure 4 Aiming Wang *et al.* 2002

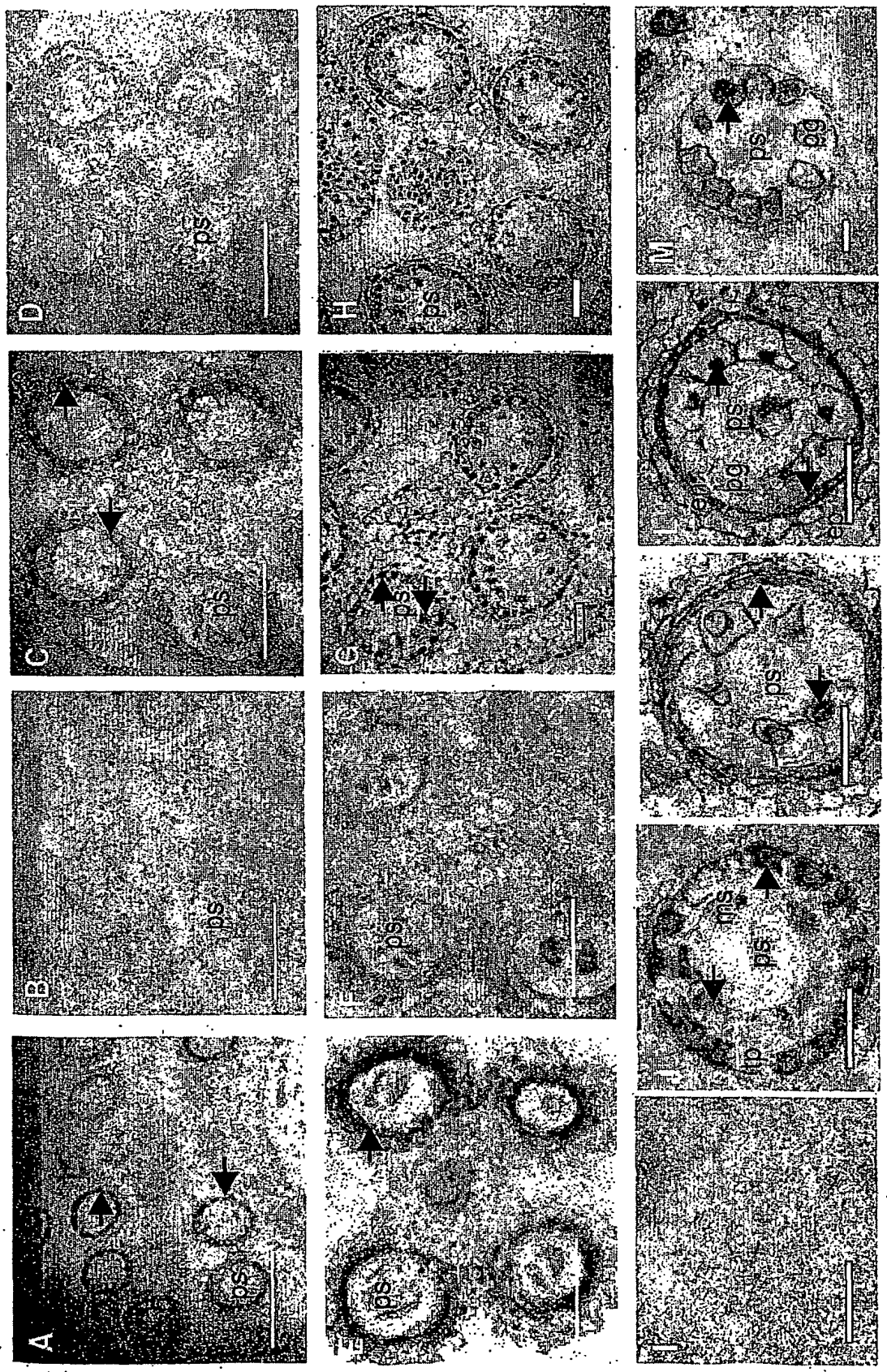


Figure 5

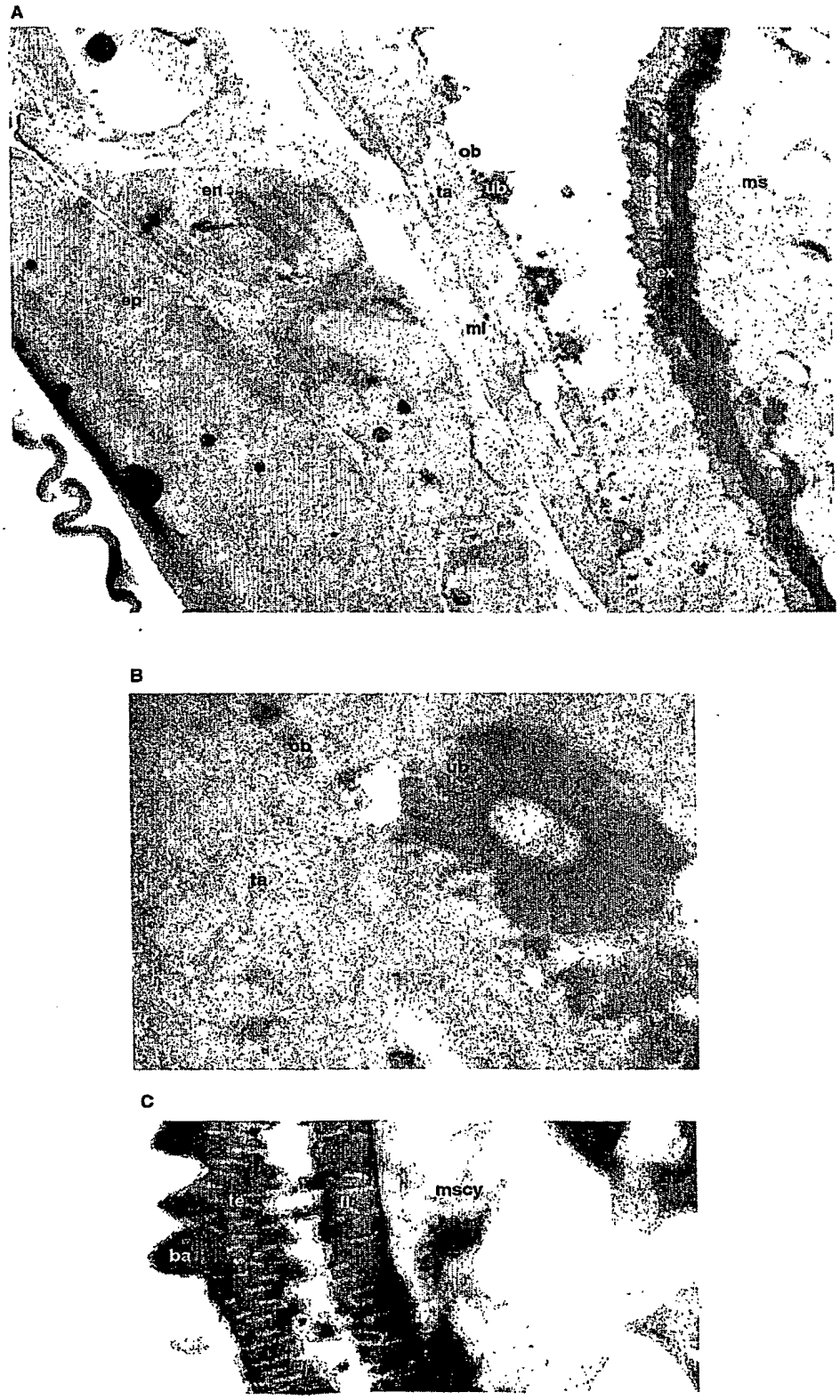
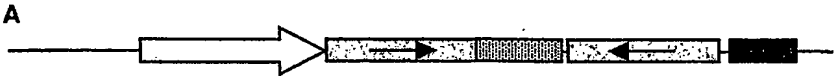


Figure 6

A



Constructs	Promoter	Sense arm+intron	Antisense arm	Terminator
pAMW495	taRAFTIN1a	osRAFTIN1	osRAFTIN1	35S
pAMW496	taRAFTIN1b	osRAFTIN1	osRAFTIN1	35S
pAMW497	osRAFTIN1	osRAFTIN1	osRAFTIN1	35S
pAMW498	taRAFTIN1b	taRAFTIN1a	taRAFTIN1a	35S
pAMW500	osRAFTIN1	taRAFTIN1a	taRAFTIN1a	35S
pAMW506	taRAFTIN1a	taRAFTIN1a	taRAFTIN1a	35S
pAMW507	35S	osRAFTIN1	osRAFTIN1	35S
pAMW508	35S	taRAFTIN1a	taRAFTIN1a	35S

B

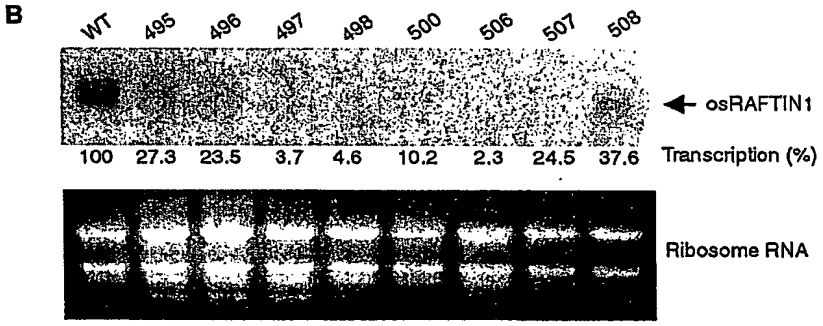


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Figure 7 Aiming Wang *et al.* 2002

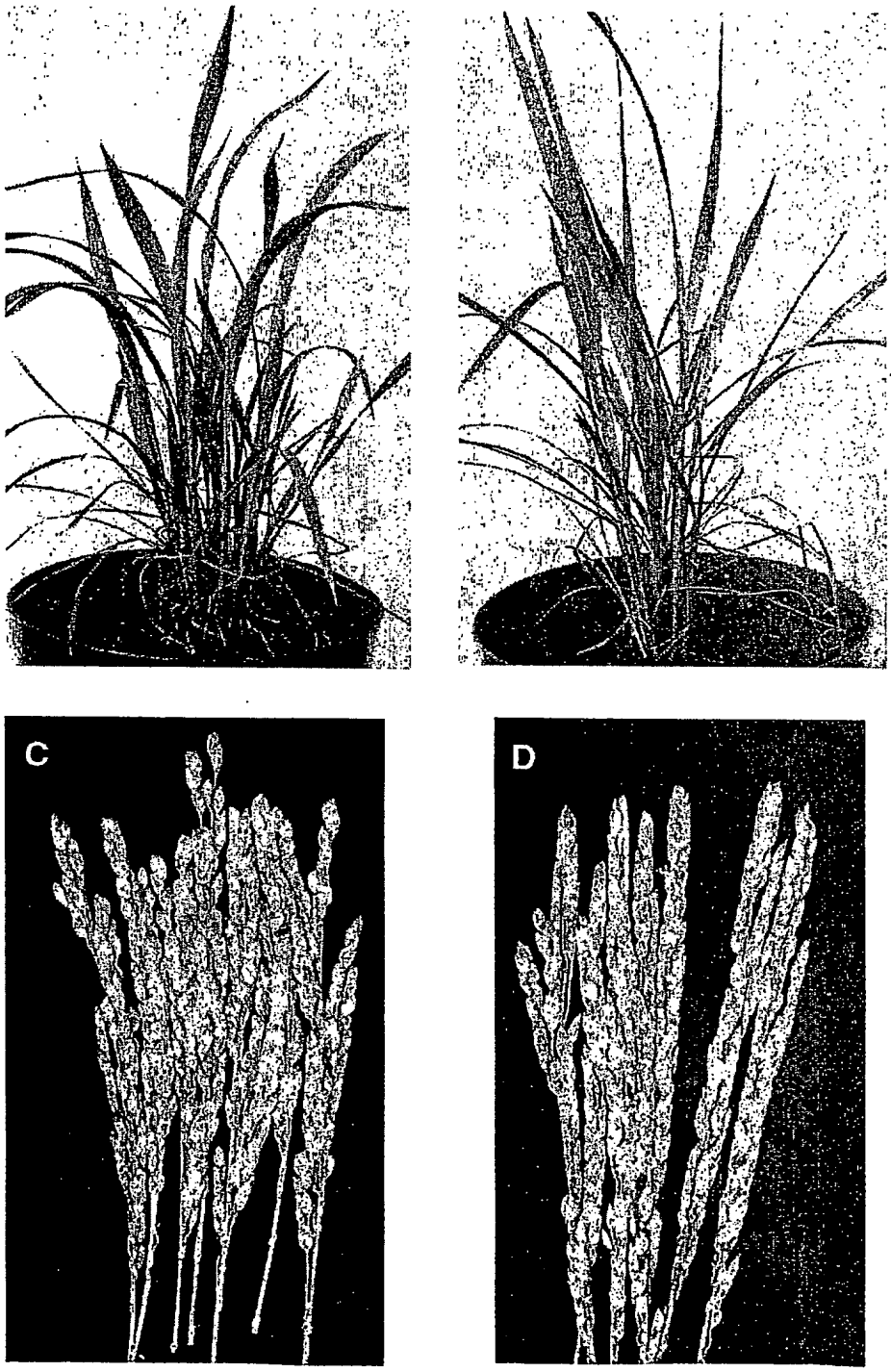
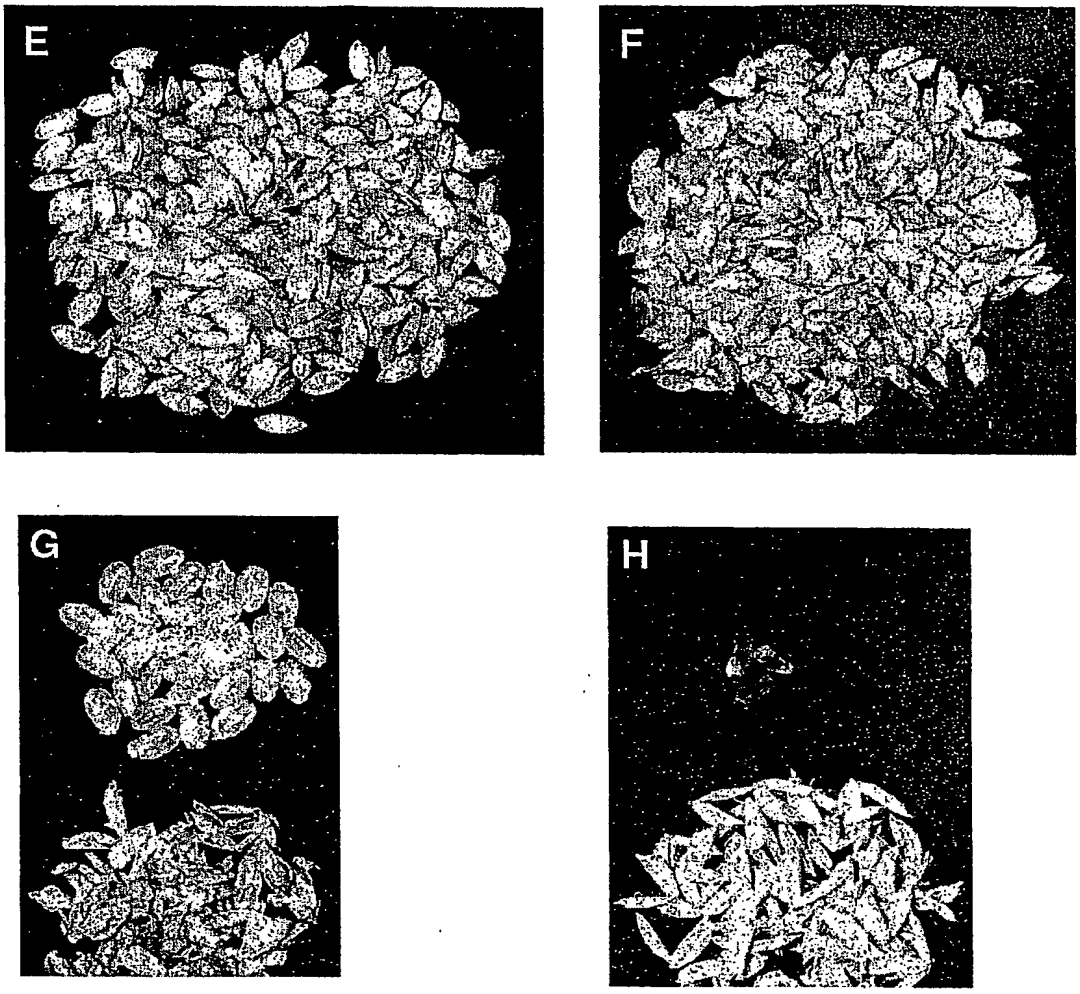


Figure 8ABCD Aiming Wang *et al.* 2002

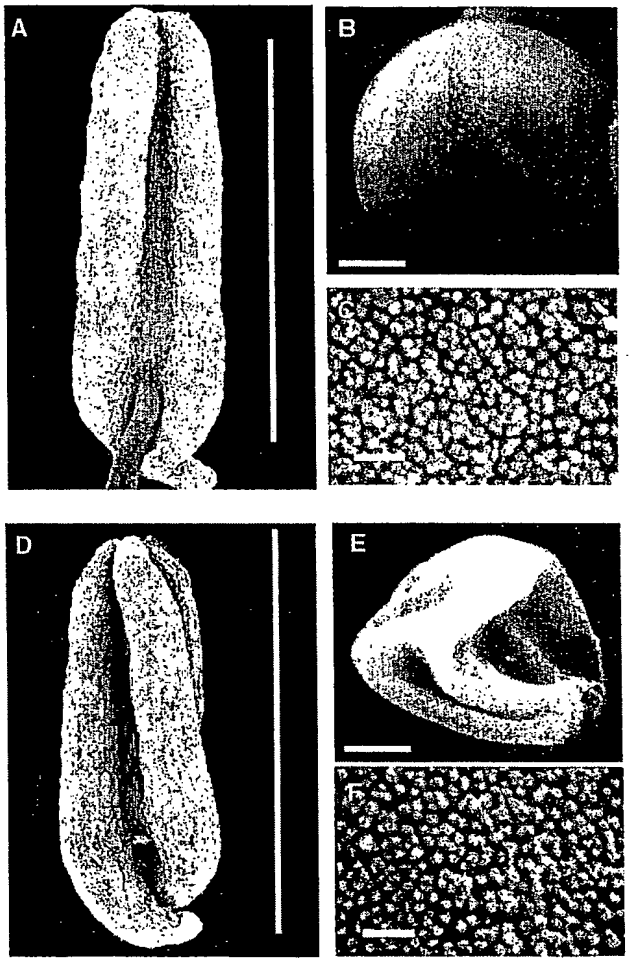


Top

Figure 8EFGH Aiming Wang *et al.* 2002

Top

Figure 8I Aiming Wang *et al.* 2002



Top

Figure 9 Aiming Wang *et al.* 2002

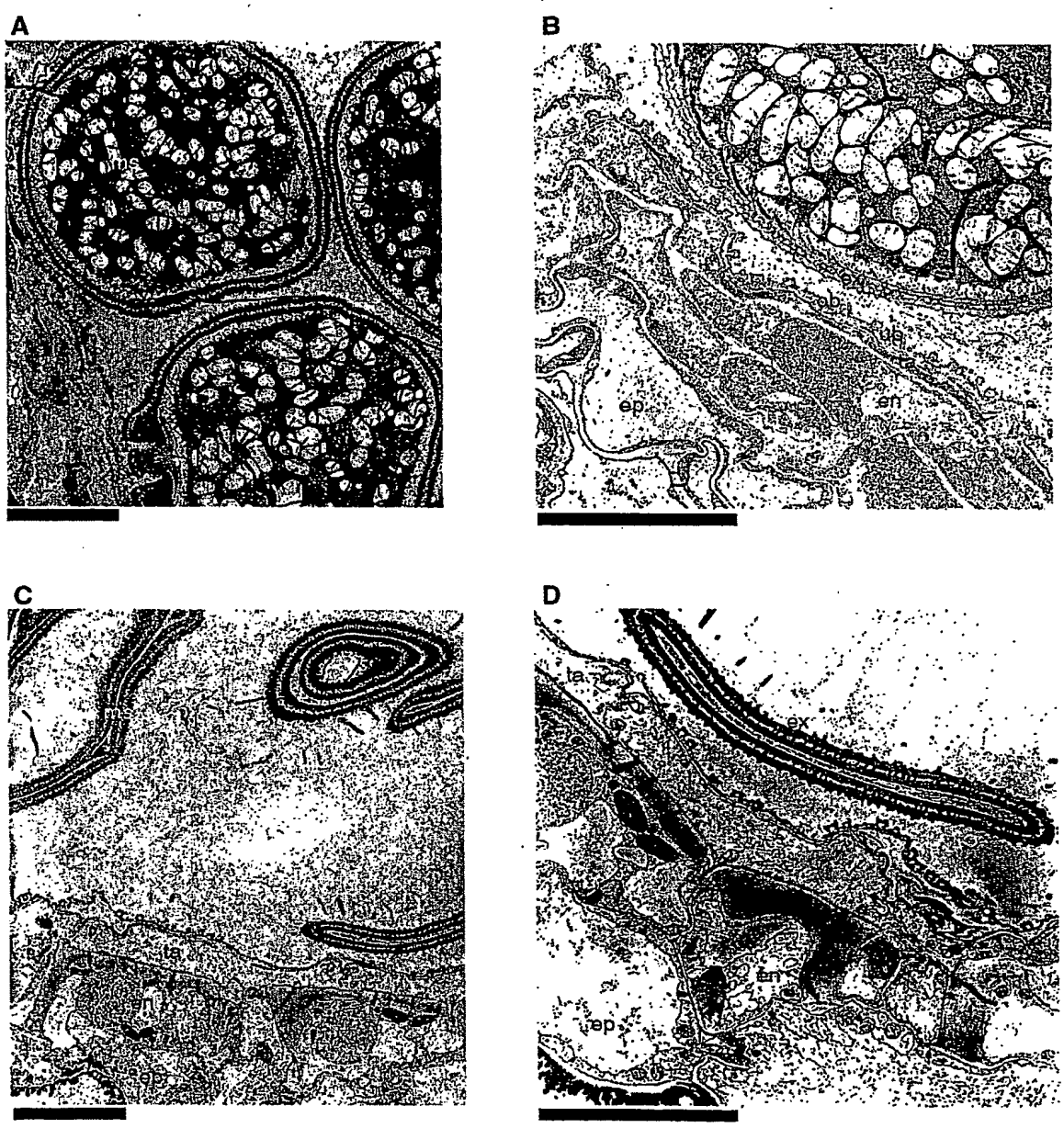


Figure 10

Fig. 11. *taRAFTIN1a* cDNA sequence (1338 nt excluding the polyA tail, ORF from nt 29 to nt 1198). Start codon and stop codon are underlined.

CTCTGGACCTCTCACCTAGCGCACATCCATGGCGCGCTTCCTCGTCGCCCTCCTCGCCACCAC
CCTGGTCGCGGTTCAGGCTGGAGGGCAGCTGGGCCACGCGGCGCCGGCGACGGCGGAGGTGTT
CTGGCGCGCCGTGCTGCCACACTCGCCATTGCCCGACGCCGTTCTCCGCCTTCTCAAACAACC
CGCAGCAGGTGTTGAACTGCTCACAGAAGCCACCAGCTTCGTGAGGGATGCCGAGGACAGGCC
CCCCTTCGACTACCGTGATTACAGCCGCTCGCCGCCCGATGATGAACCGAGCAAGAGCACCGG
CGCCGCCTCCGGGGCGCGGGACTTCGACTACGACGACTACAGCGGGGGCGACAAGCTCCGTGG
CGCCGCCTCCGGGGCGCGGGACTTCGACTACGACGACTACAGCGGGGCCGACAAGCTCCGTGG
CGCCACCGATGAATACAAGGCGCCGAGCAGCAGCCTCGCTGGAAACGGGGCGTCCATGGCTAG
GGGCGGCAAGGCGGAGACGACGACGGTGTTCTTTCACGAGGAGGCGGTGCGCGTCGGCAAGAG
GCTCCCATTCCGCTTCCCGCCGGCGACTCCCGCCGCGCTCGGTTTCCTGCCGCGCCAGGTCGC
CGACTCCGTCCCGTTCACGACGGCCGCGCTGCCTGGCGTCCTCGCGACGTTCGGCGTCGCGTC
CGACTCCGCCACGGTGGCCAGCATGGAGGCGACGCTGCGCGCCTGCGAGTCGCCGACCATCGC
CGGGGAGTCCAAGTTCTGCGCGACCTCGCTGGAGGCCCTGGTGGAGCGCGCCATGGAAGTGCT
GGGGACCCGCGACATCAGGCCGGTGACGTCGACGCTGCCCCGCGCCGGCGCCCCGCTGCAGAC
GTACACCGTCCGCTCCGTGCGGCCGGTGGAGGGGGGGCCTGTCTTCGTGGCGTGCCACGACGA
GGCCTACCCGTACACCGTGTACCGGTGCCACACCACTGGCCCGTCCAGGGCGTACATGGTGGA
CATGGAGGGCGCGCGCGGCGGCGACGCGGTGACCATCGCCACCGTGTGCCACACCGACACGTC
CCTGTGGAACCCGGAGCACGTCTCCTTCAAGCTCCTGGGCACCAAGCCTGGCGGCACGCCGGT
CTGCCACCTCATGCCGTACGGGCACATAATCTGGGCCAAGAACGTGAATCGCTCGCCGGCGTG
AGCGGCCCGGGCAGCTCTGTGGTCTCGCCGGAACTAAGATCGATGTACTACTACTACTATCTG
TTTCCACCTACGTCTTCTGTTGTTCAGACCACCAGATGGTCACCAGAGCAGCGCTTGTAATAA
AAGAACAGCTTCTGCAAAAAAAAAAAAAAAAA

Fig. 12. *taRAFTIN1a* genomic sequence (1560 bps including two introns). Introns are shown in lower case letters. Start codon and stop codon are underlined.

CTCTGGACCTCTCACCTAGCGCACATCCATGGCGCGCTTCCTCGTCGCCCTCCTCGCCACCAC
CCTGGTCGCGgtaatggccgaagaagccactgagcaacgcctgcatcttcttcatttcggcaa
actgcacctagtgcatttcgcatgagattgatcgatcacaaactggtgctaacggcctgtttc
gtcacagGTTCAGGCTGGAGGGCAGCTGGGCCACGCGGCGCCGGCGACGGCGGAGGTGTTCTG
GCGCGCCGTGCTGCCACACTCGCCATTGCCCGACGCCGTTCTCCGCCTTCTCAAACAACCCGC
AGCAGgtctgtctttcatgttcctttcctcgtcgccctccgttaactgtcttcttctctcgag
tttgattgaccgccaaacacaaaaaatgcatgcacgcacagGTGTTGAACTGCTCACAGAAGC
CACCAGCTTCGTGAGGGATGCCGAGGACAGGCCCCCCTTCGACTACCGTGATTACAGCCGCTC
GCCGCCCGATGATGAACCGAGCAAGAGCACCGGCGCCGCCTCCGGGGCGCGGGACTTCGACTA
CGACGACTACAGCGGGGGCGACAAGCTCCGTGGCGCCGCCTCCGGGGCGCGGGACTTCGACTA
CGACGACTACAGCGGGGCCGACAAGCTCCGTGGCGCCACCGATGAATACAAGGCGCCGAGCAG
CAGCCTCGCTGGAAACGGGGCGTCCATGGCTAGGGGCGGCAAGGCGGAGACGACGACGGTGTT
CTTTCACGAGGAGGCGGTGCGCGTCGGCAAGAGGCTCCCATTCCGCTTCCCGCCGGCGACTCC
CGCCGCGCTCGGTTTCCTGCCGCGCCAGGTCGCCGACTCCGTCCCGTTCACGACGGCCGCGCT
GCCTGGCGTCCTCGCGACGTTCGGCGTCGCGTCCGACTCCGCCACGGTGGCCAGCATGGAGGC
GACGCTGCGCGCCTGCGAGTCGCCGACCATCGCCGGGGAGTCCAAGTTCTGCGCGACCTCGCT
GGAGGCCCTGGTGGAGCGCGCCATGGAAGTGCTGGGGACCCGCGACATCAGGCCGGTGACGTC
GACGCTGCCCCGCGCCGGCGCCCCGCTGCAGACGTACACCGTCCGCTCCGTGCGGCCGGTGGA
GGGGGGGCCTGTCTTCGTGGCGTGCCACGACGAGGCCTACCCGTACACCGTGTACCGGTGCCA
CACCACTGGCCCGTCCAGGGCGTACATGGTGGACATGGAGGGCGCGCGCGGCGGCGACGCGGT
GACCATCGCCACCGTGTGCCACACCGACACGTCCCTGTGGAACCCGGAGCACGTCTCCTTCAA
GCTCCTGGGCACCAAGCCTGGCGGCACGCCGGTCTGCCACCTCATGCCGTACGGGCACATAAT
CTGGGCCAAGAACGTGAATCGCTCGCCGGCGTGAGCGGCCCGGGCAGCTCTGTGGTCTCGCCG
GAACTAAGATCGATGTACTACTACTACTATCTGTTTCCACCTACGTCTTCTGTTGTTCAGACC
ACCAGATGGTCACCAGAGCAGCGCTTGTAATAAAAGAACAGCTTCTGC

Fig.13. *taRAFTIN1a* promoter sequence (1719 bps).

CTGTCGATGGCGCTCTGTCCTTGTGATTCTTTCTTAGGGAACTCGTCTCTGGGGCCTCCGAGG
CCTGCAACCCTGTATCAGGACAATTCTGACTGGCCTCCAGGAGTCCTAACAGCCACCGACCTG
GTCCACTGGGCCCATCTAGAGTATCTTGAAGTGTCGTTTGCACAAATCCCGCTAATTAAGGGA
TGTGATGATGATGGTTTCTGAATCCGCGCGCCTTACCTCGCAAAACGGGGAATTGCAAAGGAT
ATATGGCACCTGTCGCGTCGTGAGGCCAGACGCTTCGGTTTCAAGCTGGTTATAGGGAGGGGG
AAACGAAGGGTTTTTTCTCCCTCTGTCTTCATCCATTTTCGTCTCCCAGCCCTCAGCTCCCAA
AAGCGTGTCGCCACCTCAAAGTCTTCAGCGCTTGCTCACGTAGCCCCCGTCCACCCCTTCCTT
GCCACCAAGATGGCCCGAACCAAGAGCGAGAAGGTTCCTAAGGTTCCCAGCTAGGATCTGCCC
GCCGCTGGAACGGGGCTGAAGCGGAAGAGGGTCGCCTCCAAGGGTGGTATGAAACAACAGCCG
GAAGCCCCCAAGACTACAGGAAAGTGGTTCCCTTCCTCGGCCACCGACAAAAAACTTCAGGGT
CTCGTGGAGATAGGGCTGATGCCAGCGGATTTGGAGTGCCGCCTCCCGGGGGACGAGGCTCCG
CCAACTCCTCGCGACGGTGAGCACATCCTCTGCCTGGAGTATATATTTCGGGAGGGGCTCGGG
TTTCCCCTACACGACTTCGTTTGCGGGATCTTGCGCTTCTACGGCTGCTAGCTACACCACATC
CCGTCAAACGGGGTTCTTTACATTGCAAACTTCATCACATTTTGCGAGTGCTTTCTCGGGACT
GCCGCTCACTTTAAGTTGTTCCAATACTTCAATCAGGACTGCGTTCAGACCAACGGGGACATC
GTCTACGACCCCGCAACACCAAATTCCTCGCCACATACCTCCGGAAAATAATCCTATACAACC
TGGTCTCACGCTTCATCTCGTAAGATTTGCCATGTGTACTTCACCAATCTTGATGCATCCCTT
TTTCCCCAAGATTTATATGCCTGATCTGTATTTTGTCTCCGCTGTTTCGAGATTTGATGTTTA
ATTGATGAAGCCCAAGCAATCCGGCATGCCCGTCGGTGCACTAGATGGCTAGCTTTTCTACGG
TGCTGGGCCTGCCGGCGAGGGGCGCGAGGCCACGTAGGAGACTGTTAGGATTCATGGGGCTGG
ACGCTGGTGGCGTGAAGTTCGGGAAGGAGGATTGAGGAAGAAGGATGCATCAAGATTGGTGAA
GAACACGTGGCATCCTCTAGAGTAGGTCTTACGAGATGAAGCCTGAGACCAGGTCGTATGGGA
TTATTTTCCCGGACCTCCCGAAGCCCCGCAAAGTTAACTGCAGCTGCGTGGACGGCGAGCACC
GCACCGCACACGAACGCGAACCTGACGCTGCCGCGCCACACAACACGCCATTCGCGCGCGGAT
CGTCGGATGTCACGCCCAGGATTATATTCTCCGGTGCCGCACGTACCATGCGATCGCACAGCT
CACGTCGAGAGCTTTTCTGTTTGGCGTCGCCGTCAATGAAACACCTTCCCGTCGAGCCGACGA
CGCCTATAAGTACCTCGTCTGATCGCATCATCACTCCCAAGTACTACAACCTCTGGACCTCTC
ACCTAGCGCACATCCATG

Fig.14. *taRAFTIN1b* cDNA sequence (1275 bps excluding the polyA tail, ORF from nt 25 to nt 1113). Start codon and stop codon are underlined.

CGACCTCTCACCTAGCGCACATCCATGGCGCGCTTCCTCGTCGCCCTCCTCGCTGCCACCCTG
GTCGCGGTTCAGGCTGGAGGGCAGCTGGGCCACGCGGCGCCGGCTACGGGGGAGGTGTTCTGG
CGCGCCGTGCTGCCGCACTCGCCATTGCCTGACGCCGTTCTCCGCCTCCTCAAACAACCTGCA
GCAGAATCCACCAGCTTCGTGAGAGACCCCGAGGACAGGCCCCCCTTCGACTACCGTGATTAC
AGCCGCTCGTCGTCCGATGATGAACCGAGCAAGAGCACCGTCGCCGCCTCCGGAGCGGGGGGC
TTCGACTACGACAACTACAGCGGGGCCGACGAACGTCGTGGTGCCACCGATGAATACAAGGCG
CCGAGCAGCAGCCTCGCTGGAAGCGGGGCGTACATGGCTAGGGGCGGCAAGGCGGAGACGACG
ACGGTGTTCTTTCACGAGGAGGCGGTGCGCGTCGGCAGGAGGCTCCCATTCCACTTCCCGCCG
GCGACTCCCGCCGCTCTCGGTTTCCTGCCGCGCCAGGTCGCCGACTCCGTCCCGTTCACGACG
GCCGCGCTGCCCGGCATCCTCGCGACGTTTGGCATCGCGTCCGACTCCACCACGGTGCCCAGC
ATGGAGGCGACGCTGCGCGCCTGCGAGTCGCCCACCATCGCCGGGGAGTCCAAGTTCTGCGCG
ACTTCGCTGGAGGCCCTGGTGGAGCGCGCCATGGGAGTGCTGGGGACCCGGGACATCAGGCCG
GTGACGTCGACGCTGCCCCGCGCCGGCGCCCCGCTGCAGACGTACACCGTCGTCGCCGTGCAG
CCGGTGGAGGGGGGGCCTGTCTTCGTGGCGTGCCACGACGAGGCCTACCCGTACACCGTGTAC
CGGTGCCACACCACCGGCCCGTCCAGGGCGTACACGGTGGACATGGAGGGCGCGCGCGGCGCC
GACGCGGTGACCATCGCCGCCGTGTGCCACACCGACACGTCCCTGTGGAACCCGGAGCACGTC
TCCTTCAAGCTCCTCGGCACCAAGCCCGGCGGCACGCCGGTCTGCCACCTCATGCCGTACGGG
CACATAATCTGGGCCAAGAACGTGAAGCGCTCGCCGGCGTGAGCGGCCTTGCAGCTCTGTGGT
GTCGCCGGAACTAAGATCGATGTACTACTACTATCTGTTCCTACCTACGTCTTCTTGTTGTTC
ATACCACCAGATGGTCACCCAAGAGCAAGCGTTCGTAATAAAAAGAACAGCTTTTTGCAGAAG
CTGGTGTTTTATTTTAAAAAAAAAA

Fig.15. *taRAFTIN1b* genomic sequence (1503 bps including two introns). Introns are shown in lower case letters. Start codon and stop codon are underlined.

CGACCTCTCACCTAGCGCACATCCATGGCGCGCTTCCTCGTCGCCCTCCTCGCTGCCACCCTG
GTCGCGgtaatggccgaagaagagcaacgcctgcatcttcttcattttggcaaattgcaccta
gtacattttgcatgagattaatcaatcacaaactggtgctaacggcctgtttcgtcccag
GTTCAGGCTGGAGGGCAGCTGGGCCACGCGGCGCCGGCTACGGGGGAGGTGTTCTGGCGCGCC
GTGCTGCCGCACTCGCCATTGCCTGACGCCGTTCTCCGCCTCCTCAAACAACCTGCAGCAGgt
ctgtcttgcatcttcctcgtcgccctccgttaactgtcttcttctctcgagtttgattgatca
ccaaacacaaaaatgcatgcacgcgtgggtgttgaactgcgcacagAATCCACCAGCTTCGTG
AGAGACCCCGAGGACAGGCCCCCCTTCGACTACCGTGATTACAGCCGCTCGTCGTCCGATGAT
GAACCGAGCAAGAGCACCGTCGCCGCCTCCGGAGCGGGGGGCTTCGACTACGACAACTACAGC
GGGGCCGACGAACGTCGTGGTGCCACCGATGAATACAAGGCGCCGAGCAGCAGCCTCGCTGGA
AGCGGGGCGTACATGGCTAGGGGCGGCAAGGCGGAGACGACGACGGTGTTCTTTCACGAGGAG
GCGGTGCGCGTCGGCAGGAGGCTCCCATTCCACTTCCCGCCGGCGACTCCCGCCGCTCTCGGT
TTCCTGCCGCGCCAGGTCGCCGACTCCGTCCCGTTCACGACGGCCGCGCTGCCCGGCATCCTC
GCGACGTTTGGCATCGCGTCCGACTCCACCACGGTGCCCAGCATGGAGGCGACGCTGCGCGCC
TGCGAGTCGCCCACCATCGCCGGGGAGTCCAAGTTCTGCGCGACTTCGCTGGAGGCCCTGGTG
GAGCGCGCCATGGGAGTGCTGGGGACCCGGGACATCAGGCCGGTGACGTCGACGCTGCCCCGC
GCCGGCGCCCCGCTGCAGACGTACACCGTCGTCGCCGTGCAGCCGGTGGAGGGGGGGCCTGTC
TTCGTGGCGTGCCACGACGAGGCCTACCCGTACACCGTGTACCGGTGCCACACCACCGGCCCG
TCCAGGGCGTACACGGTGGACATGGAGGGCGCGCGCGGCGCCGACGCGGTGACCATCGCCGCC
GTGTGCCACACCGACACGTCCCTGTGGAACCCGGAGCACGTCTCCTTCAAGCTCCTCGGCACC
AAGCCCGGCGGCACGCCGGTCTGCCACCTCATGCCGTACGGGCACATAATCTGGGCCAAGAAC
GTGAAGCGCTCGCCGGCGTGAGCGGCCTTGCAGCTCTGTGGTGTCGCCGGAACTAAGATCGAT
GTACTACTACTATCTGTTCCTACCTACGTCTTCTTGTTGTTCATACCACCAGATGGTCACCCA
AGAGCAAGCGTTCGTAATAAAAAGAACAGCTTTTTGCAGAAGCTGGTGTTTTATTTT

Fig. 16. *taRAFTIN1b* promoter sequence (2095 bps).

TTGTTGAGTGCCACACTATATTCACTACACCATATGCACATTATGCTTGGATTGTCTTGTACT
TGACTCATGTGTTTAGACACTTCATTTTATTTGGTGTTGTGAATGACTCCTATGCTTACCATA
GACCTTTCATTGAGCGCTTTGTGCATGTTTGTTATACCTTGAGGTAGATGTTTGTTCTCTTGT
CAAATATATAGCATCTCTACCTCCCATTTGCATGCTTGTTTCCATGATGTCCTTGATTGTGCT
CAATTCATATGCTTCTGTGACATGCCACAATCCTTTGTCACACCATATGCTAGGCTTGATGAT
GACACTTGTTGGGTGACTCACCTTTTGAATGATTGGTTTTGCATTAACGCTAACCACATTTAT
TTTTCCAAGTGTTTGTTGTCCTTGCTCCTTTTGAAGGAACCACATGACGGTGCGACATTGGAG
AGTGCCTATTTCGAGCTTCAAGATGATGAGTGCTTGGTGATCGTCCACTTCTACATGGTGACG
CCGTCTCTTTCCCATGGTGATTTGGTTTTTGATCCGAGGTCGGATCTTTCCCAAGTGGGAGGG
GATGATGCGGAGCATACTACGGACATCACCATGTCTAGAGTTCATTCAGCAAGTGACACCTAT
CACATCTACTTCACATACATAAAGGTGAATCATCTCCTTTACACGTGCTCACTTGATCCCTTC
GAGGATGGTATACTACTTGACACTTCTCACGTGTGCATGCATAGGCATTGTCGGAGCACCATG
AACGATGAGGAGGAGTGCGAGCACAAGTGTACAACTACACCATCCGCGAGGGAAGCATGGAAG
AGAAGGAAGAAGAAGCATGGACAAGCTTCTGGAAAGCCCGGAACTTCTGGCCTCCTGCCCGGA
ACTTCCGGTCATCCGAAACTTCCTGCCCCGACACACCGAAGCCGTCTGAGAGCGTGCCAAATC
TCTGGATAGCCCGGACCTTCGACCGGAACCTCCGGCGCCTGGACCTTCCGGCCATCCCTGGAA
CTCCCGGCCTGCCTGCACGCAGAGACTCGGGCCGAAGCGCATGTACCCTTTCGCCCCTCACTT
ATCCCTTCGTGGCTATCACTATATATACTCATCCTCCTCCTCCATTCTAGGGTTAGCATTTTG
ATAGCTCATTTGCATGTGAGATTTGCTCCTTACCCCCATCTCCTCTTGAGAGAGTGAGATTGA
TGCACTCCATTGGAGTCCAAGGTCTCCTTTGGAGAAGATCCCATAGGGGAATCAAGACCCCAT
CATGGGAAGATCCTTCTAGGATTCAAGACCTCAACTCCTTTAAGGATTGGGATGAACTAGTTA
CCTCTTGTATCTTCTTGTGTTGGATTTAAACCTTTGTATCCCTCTATGTGTATGTGGATTTAG
CATATGTGTGATTGGATCTTGTCTATTGGAGTGTTTCCTCTCTTTTGTTTTCCTTGTGTTCAT
CGTTTTCTTCGGGAGATCCCCTCCATTTCGTGAAAGATCGGTCCCTAGGGTTCTACCCTACAT
TAGCTCAGGTTTCCCCTACACATCTTCGTTTGTGAGCTGTTGCGCTTCTACGGCTGGGAGCTA
CAGCACATCTCATTCCCACCAAACGGGGTTCTTCACATTGTAAACTTCATCGTATTTTGCGAA
TGCTTTCTGGGGACAGCCACTCACTTTGAGTTGTTCCGATACTTCTTCCGGGTCTGCGTTCAG
ACCAACGGGGACACCGTCTGCAACCTTGGAGGAGCCATTCCTGCGACACACCAAAATTTTCGC
CACGGACCCCCCGAAGATCCGCAAGAAAAAAAAAGCTGCAACGGCGTGGACGGCGAGCACCGC
ACCGCACACGAACGCGAACGCGACGCTGCCGCGCCACACAACACGCCATTCGCGCGCGGATCG
TCGGATGTCACGCCCACGATAATATTCTCCGGTGCCGCACGTACCATGCGATCGCACAGCTCA
CATCGAGAGCTTTTCTGTTTGGTGTCGCCGTCAATGAAACACCTTCCCGTCAAGCCGACGACG
CCTATAAGTACCTCGCCTGATCGCATTATCACTCCCAAGTACTACAACCTCTCGACCTCTCAC
CTAGCGCACATCCATG

Fig. 17. *taRAFTIN1d* predicted cDNA sequence (246 bps).

ATGGCGCGCTTCCTCGTCGCCCTCCTCGCTGCCACCCTGGTCGCGGTTCAGGCTGGAGGGCAG
CTGGGCCACGCAGCGCCGGCGACGGCGGAGGTGTTCTGGCGCGCCGTGCTGCCGCACTCGCCA
TTGCCCGACGCCGTTCTCCGCCTCCTCAAACAACCTGCAGCAGGTGTTGAACTGCACACAGAA
GCCACCAGCTTCGTAAGAGACCCCGAGGACAGGCCCCCCTTCGACTACCGTGATTAC

Fig. 18. *taRAFTIN1d* partial genomic sequence (441 bps). Introns are shown in lower case letters.

ATGGCGCGCTTCCTCGTCGCCCTCCTCGCTGCCACCCTGGTCGCGgtaatggccgaagaagcc
actgagcaacgcctgcatcttctttattttggcaaactggtgctaacggccaatactgccgct
tgcgttacgtctcagGTTCAGGCTGGAGGGCAGCTGGGCCACGCAGCGCCGGCGACGGCGGAG
GTGTTCTGGCGCGCCGTGCTGCCGCACTCGCCATTGCCCGACGCCGTTCTCCGCCTCCTCAAA
CAACCTGCAGCAGgtctgtcttgcatgttcctcgtcgccctccgttaactgtcttcttctctc
gagtttgattgatcaccaaacacaaaaatgcatgcacgcgtacgcgtagGTGTTGAACTGCAC
ACAGAAGCCACCAGCTTCGTAAGAGACCCCGAGGACAGGCCCCCCTTCGACTACCGTGATTAC

Fig. 19. *osRAFTIN1* cDNA (1301 bps, ORF from nt 63 to nt1301). Start and stop codons are underlined.

GTCGCAGTCGTCTCCGGCGAGAAATCGGCTGCGCCCCGTCTCTCTCTCTCTCGAACGCTTCCA
TGGCGCGCTTCCTCCTCCTCCTCGTCGCCGTCGCCGCTGCCGCCGCCGTGCTTTCGCTGGGCG
ACGCGGCGCCGTCGACGGCCGAGGTGTTCTGGCGCGCCGTGCTGCCGGAATCCCCGTTGCCGG
ACGCCTTCCTCCGCCTCCTCCGCCCTGACACCAGCTTCGTCGTCGGCAAAGCGGAGGCGGCCG
GTGGCGCGGCGCGGACCGGATTCCCCTTCGATTACACTGACTACAGGGGATCTGATTCTCCGA
CGACGGCGAGTGGTTTGGACCTCGCCGGTGACTTCGGCGAGCCGGCGCCTTTCGGCTACGACT
ACAGTGCACAGGGCGAAGGCGGCGGCGGCGGCGCCGCCGCCGCCGCGGGAGAGCAGGTTCTTG
CCGTCGACGCGGGCTTCAACTACGACAAATACGTCGGCGCGAGGAAGCTCCGCGGCGGCAGCA
GCACCGCCGGCGGAGAGAATGATGACGAGCCTTTCGGGTACGACTACAAGGCGCCGAGCAGCG
GCAGCGGCACCGCGGCGTCGACGACGGCGCGAGGCGTCGGCACGGGCGCCACGACGACGGTGT
TCTTCCACGAGGAGGCGGTGCGCGTCGGCGAGAGGCTCCCGTTCTACTTCCCGGCGGCGACGA
CGTCGGCGCTGGGCTTCCTGCCGCGCCGCGTCGCGGACTCCATCCCGTTCACGGCGGCCGCGC
TGCCGGCCGTCCTCGCGCTGTTCGGCGTCGCGCCGGACACCGCCGAGGCGGCCGGCATGAGGG
AGACGCTGCGCACGTGCGAGTGGCCGACCCTCGCCGGCGAGTCCAAGTTCTGCGCCACGTCGC
TGGAGGCCCTGGTGGAGGGCGCCATGGCGGCGCTCGGGACACGCGACATCGCCGCGCTGGCGT
CGACGCTGCCCCGCGGCGGCGCGCCGCTGCAGGCGTACGCCGTCCGCGCCGTGCTCCCCGTCG
AGGGCGCCGGCTTCGTGGCGTGCCACGACCAGGCGTACCCGTACACCGTGTACCGCTGCCACA
CCACCGGCCCGGCCAGAGCTTACATGGTGGAGATGGAAGGCGACGGCGGCGGCGATGGCGGCG
AGGCGGTGACCGTGGCCACCGTGTGCCACACCAACACGTCGCGGTGGAACCCGGAGCACGTCT
CGTTCAAGCTCCTCGGCACCAAGCCCGGCGGCTCGCCGGTGTGCCACCTCATGCCGTACGGGC
ACATCGTCTGGGCCAAGAACGTGAAGAGCTCGACGGCGTAG

Fig. 20. *OsRAFTIN1* genomic sequence (1479 bps, two introns included). Introns are shown in lower case letters.

GTCGCAGTCGTCTCCGGCGAGAAATCGGCTGCGCCCCGTCTCTCTCTCTCTCGAACGCTTCCA
TGGCGCGCTTCCTCCTCCTCCTCGTCGCCGTCGCCGCTGCCGCCGCCGTGCTTTCGgtacact
catgatgccgctactcagctgagccatgcaccgttgcacccgtatactaacgatcgctcgatc
gaccgacgatgtgtgttcttcagcagCTGGGCGACGCGGCGCCGTCGACGGCCGAGGTGTTCT
GGCGCGCCGTGCTGCCGGAATCCCCGTTGCCGGACGCCTTCCTCCGCCTCCTCCGCCCTGgtc
ggtgtccttccttcctccttccgccgccgcgcgccgccattactctcctcgaggtttgatttg
tttgtggacgttgcagACACCAGCTTCGTCGTCGGCAAAGCGGAGGCGGCCGGTGGCGCGGCG
CGGACCGGATTCCCCTTCGATTACACTGACTACAGGGGATCTGATTCTCCGACGACGGCGAGT
GGTTTGGACCTCGCCGGTGACTTCGGCGAGCCGGCGCCTTTCGGCTACGACTACAGTGCACAG
GGCGAAGGCGGCGGCGGCGGCGCCGCCGCCGCCGCGGGAGAGCAGGTTCTTGCCGTCGACGCG
GGCTTCAACTACGACAAATACGTCGGCGCGAGGAAGCTCCGCGGCGGCAGCAGCACCGCCGGC
GGAGAGAATGATGACGAGCCTTTCGGGTACGACTACAAGGCGCCGAGCAGCGGCAGCGGCACC
GCGGCGTCGACGACGGCGCGAGGCGTCGGCACGGGCGCCACGACGACGGTGTTCTTCCACGAG
GAGGCGGTGCGCGTCGGCGAGAGGCTCCCGTTCTACTTCCCGGCGGCGACGACGTCGGCGCTG
GGCTTCCTGCCGCGCCGCGTCGCGGACTCCATCCCGTTCACGGCGGCCGCGCTGCCGGCCGTC
CTCGCGCTGTTCGGCGTCGCGCCGGACACCGCCGAGGCGGCCGGCATGAGGGAGACGCTGCGC
ACGTGCGAGTGGCCGACCCTCGCCGGCGAGTCCAAGTTCTGCGCCACGTCGCTGGAGGCCCTG
GTGGAGGGCGCCATGGCGGCGCTCGGGACACGCGACATCGCCGCGCTGGCGTCGACGCTGCCC
CGCGGCGGCGCGCCGCTGCAGGCGTACGCCGTCCGCGCCGTGCTCCCCGTCGAGGGCGCCGGC
TTCGTGGCGTGCCACGACCAGGCGTACCCGTACACCGTGTACCGCTGCCACACCACCGGCCCG
GCCAGAGCTTACATGGTGGAGATGGAAGGCGACGGCGGCGGCGATGGCGGCGAGGCGGTGACC
GTGGCCACCGTGTGCCACACCAACACGTCGCGGTGGAACCCGGAGCACGTCTCGTTCAAGCTC
CTCGGCACCAAGCCCGGCGGCTCGCCGGTGTGCCACCTCATGCCGTACGGGCACATCGTCTGG
GCCAAGAACGTGAAGAGCTCGACGGCGTAG

Fig. 21. *osRAFTIN1* promoter sequence (1461 bps).

CGAAGGCAAACTCTGGTAAGGATTCCCATTACACGAATCAATTTAATAAGTCTAAAACGAACA
CTATGTTATGAGAAACACCTCACATCCGTCCATAACCGTGGGCATGACTATTTAAAAAGTTTA
ACTAAACTCTACAAAAGTTGCACGCTTTACCCACACGTCATGAACGTTTCACATTACCGAATA
CATGTGGATCGGACATGGCCGACAAAGGAGAGTTCAATACAAGGCTTTTCCATAACCAATCCA
TAAATATCCTATGTCCCACGGTTGGGTGGAATCTCTCCACCAAACATCAAGCCAGGATCAGGT
CCTCATCTACCCATGCCCCACTCCATGGACTCCGACACATCCCCACTGCAGGAGATTGCCATA
TACGCCACCATACCAGTGCTCCTCAACCGCTAACATGTTGGACACCAAATTCTATATACTTAT
ATAGTTCATCTCCACTAAGTGTAGTTAATTACATTTCTCTCTTCTCTCATTAAGCCACATCAC
CTCAATTATTTTTAGCCTTTAGATGATAGATCTATGGTCCAAATTGTCTTTTCTTTCTTCTCT
CTTAAAAACATGCAATCTTAAATACTTTTAGGCTCAAAATTGTATCAAATTGTTTTAGTTTTG
TACATATTATGCAACTTAATTTTTCGCCGCAACGCGGAGGGGTATTTCATCTAGTATTATTTA
AGAGCTATACACACTGCTATAGGGGAAAAAAAAAGATAGGTTTGGCCCCCTGGTCAGTCCTGTT
GCACGGCTATATGTTGAAGGGAAAAAGCCAGTACGTTTTGTAGGTTGTTTTTTTTTTAGAATT
GCTAAAAAGTTGTGGCATGTTTTTTAGGTAAAAGCCTTTAAATATAAGTTACATTGTAACTAC
AGTGTAATTCCGCTGTAACTATATTGTAATCTCTATATAAGTTAGATATAAAATTACATATAT
ATTATTTTAATACTTATTTATAAGTTAGTATATTATAGTTATAATGGAATTAATTATAATTAT
AGTATAGTTAGATTTGAAAGTTTTTCCTTTAAGAAATTTCGCAACAGTTTATTAGATATAGTC
CCTAAACGAAAATGTCAGGTGGATGCATGATTCAGTGTGACGCTCGGGCGGATCACGGCTGCG
TCACGAAAATTCCCCCCATGCAACCCGCGTCCGGCCGTCCTTCGTGCCAACAGGCAACAGCGC
GGCGCCGGCGAACGTCACGCCCAAGATTATATTCCCCCTCTCGCGCTCGCGCGCCGCGACG
TCGTCGGAGCCAACATTATTTTTCTGTTTCCTGTCACCGTCGCCGTTGATCTCAAGCGAGATT
TGAGGTTTGGCCACGACGACGCCTGCCTATAAATACCAGGTGGTGGTCACCGCCCGGCGGCGT
CGATCGATCCGTCGCAGTCGTCTCCGGCGAGAAATCGGCTGCGCCCCGTCTCTCTCTCTCTCG
AACGCTTCCATG

Fig. 22. Predicted protein sequences

taRAFTIN1a (389 residues)

MARFLVALLATTLVAVQAGGQLGHAAPATAEVFWRAVLPHSPLPDAVLRLLKQPAAGVELLTEATSFVR
DAEDRPPFDYRDYSRSPPDDEPSKSTGAASGARDFDYDDYSGGDKLRGAASGARDFDYDDYSGADKLRG
ATDEYKAPSSSLAGNGASMARGGKAETTTVFFHEEAVRVGKRLPFRFPPATPAALGFLPRQVADSVPFT
TAALPGVLATFGVASDSATVASMEATLRACESPTIAGESKFCATSLEALVERAMEVLGTRDIRPVTSTL
PRAGAPLQTYTVRSVRPVEGGPVFVACHDEAYPYTVYRCHTTGPSRAYMVDMEGARGGDAVTIATVCHT
DTSLWNPEHVSFKLLGTKPGGTPVCHLMPYGHIIWAKNVNRSPA

taRAFTIN1b (362 residues)

MARFLVALLAATLVAVQAGGQLGHAAPATGEVFWRAVLPHSPLPDAVLRLLKQPAAESTSFVRDPEDRP
PFDYRDYSRSSSDDEPSKSTVAASGAGGFDYDNYSGADERRGATDEYKAPSSSLAGSGAYMARGGKAET
TTVFFHEEAVRVGRRLPFHFPPATPAALGFLPRQVADSVPFTTAALPGILATFGIASDSTTVPSMEATL
RACESPTIAGESKFCATSLEALVERAMGVLGTRDIRPVTSTLPRAGAPLQTYTVVAVQPVEGGPVFVAC
HDEAYPYTVYRCHTTGPSRAYTVDMEGARGADAVTIAAVCHTDTSLWNPEHVSFKLLGTKPGGTPVCHL
MPYGHIIWAKNVKRSPA

taRAFTIN1d (partial sequence, 82 residues)
MARFLVALLAATLVAVQAGGQLGHAAPATAEVFWRAVLPHSPLPDAVLRLLKQPAAGVELHTEATSFVR
DPEDRPPFDYRDY

osRAFTIN1 (412 residues)
MARFLLLLVAVAAAAAVLSLGDAAPSTAEVFWRAVLPESPLPDAFLRLLRPDTSFVVGKAEAAGGAART
GFPFDYTDYRGSDSPTTASGLDLAGDFGEPAPFGYDYSAQGEGGGGGAAAAAGEQVLAVDAGFNYDKYV
GARKLRGGSSTAGGENDDEPFGYDYKAPSSGSGTAASTTARGVGTGATTTVFFHEEAVRVGERLPFYFP
AATTSALGFLPRRVADSIPFTAAALPAVLALFGVAPDTAEAAGMRETLRTCEWPTLAGESKFCATSLEA
LVEGAMAALGTRDIAALASTLPRGGAPLQAYAVRAVLPVEGAGFVACHDQAYPYTVYRCHTTGPARAYM
VEMEGDGGGDGGEAVTVATVCHTNTSRWNPEHVSFKLLGTKPGGSPVCHLMPYGHIVWAKNVKSSTA